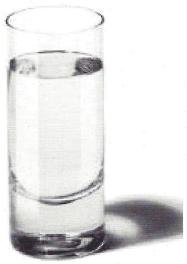
Town of Exeter

Water & Sewer Department

Water Quality Report - 2012

Water testing performed in 2011 EPA NH0801010

Now IT COMES WITH A LIST OF INGREDIENTS.





Consumer Confidence Report

2012

Exeter Water Department NH PWS ID# 0801010

What is a Consumer Confidence Report?

The Consumer Confidence Report (CCR) details the quality of your drinking water, where it comes from, and where you can get more information. This annual report documents all detected primary and secondary drinking water parameters, and compares them to their respective standards known as Maximum Contaminant Levels (MCLs).

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

Contaminants that may be present in source water include:

Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.

Inorganic contaminants, such as salts and metals, which can be naturally occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.

Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.

Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban storm water runoff, and septic systems.

Radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. The US Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

The complete Assessment Report is available for review at the Public Works Office at 13 Newfields Road. For more information, call Michael Jeffers, Water / Sewer Managing Engineer at 772 - 6157 or visit the DES Drinking Water Source Assessment website at

http://des.nh.gov/organization/divisions/water/dwgb/dwspp/dwsap.htm.

How can I get involved?

You are invited to voice your concerns at any of the Water / Sewer Advisory Committee Meetings, usually held on the second Wednesday of every month at 6:30 pm in the Nowak Room at 10 Front Street, or check the Town's web page or Chanel 22 for announcements.

For more information about your drinking water, please call the Primary Operator, Paul A. Roy, P.E. at 772 - 1346.

Violations and Other information:

The Violation for Arsenic level exceedence carried over from Quarters 3 and 4 of 2010 into Quarter 1 of 2011. Instrument replacement and limited use of the source has returned the average reading to below the violation levels.

Definitions

Action Level or **AL**: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

Maximum Contaminant Level or **MCL**: The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

Maximum Contaminant Level Goal or **MCLG:** The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

Maximum Residual Disinfectant Level or **MRDL**: The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

Maximum Residual Disinfectant Level Goal or MRDLG: The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

Treatment Technique or **TT:** A required process intended to reduce the level of a contaminant in drinking water.

Turbidity: A measure of the cloudiness of the water. It is monitored by surface water systems because it is a good indicator of water quality and thus helps measure the effectiveness of the treatment process. High turbidity can hinder the effectiveness of disinfectants.

Abbreviations

BDL: Below Detection Limit

mg/L: milligrams per Liter

NA: Not Applicable

ND: Not Detectable at testing limits NTU: Nephelometric Turbidity Unit

pCi/L: picoCurie per Liter

ppb: parts per billion

ppm: parts per million

RAA: Running Annual Average

TTHM: Total Trihalomethanes

UCMR: Unregulated Contaminant Monitoring Rule

ug/L: micrograms per Liter

THE FOLLOWING APPLIES

Drinking Water Contaminants:

Lead: If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. This water system is responsible for high quality drinking water, but can not control the variety of materials used in your plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing cold water from your tap for at least 30 seconds before using water for drinking or cooking. Do not use hot water for drinking and cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at http://water.epa.gov/drink/info/lead/index.cfm

Radon: Radon is a radioactive gas that you can't see, taste or smell. It can move up through the ground and into a home through cracks and holes in the foundation. Radon can also get into indoor air when released from tap water from showing, washing dishes, and other household activities. It is a known human carcinogen. Breathing radon can lead to lung cancer. Drinking water containing radon may cause an increased risk of stomach cancer.

What is the source of my drinking water? The sources of drinking water for the Town of Exeter are the Exeter River and Dearborn Reservoir (both surface water supplies and treated at the Water Treatment Facility on Portsmouth Avenue), Skinner Springs (added to Clarified Water at the Treatment Plant and filtered), and the Lary Lane Well (a ground water source).

The water is treated for color, turbidity, Iron, Manganese, corrosivity, and is disinfected with Chlorine.

Why are contaminants in my water? Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at 1-800-426-4791.

Do I need to take special precautions? Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the Safe Drinking Water Hotline at 1-800-426-4791.

Source Water Assessment Summary

DES prepared drinking water source assessment reports for all public water systems between 2000 and 2003 in an effort to assess the vulnerability of each of the state's public water supply sources. Included in the report is a map of each source water protection area, a list of potential and known contamination sources, and a summary of available protection options. The results of the assessment, prepared on October 28, 2002 and updated on August 8, 2006, are noted below.

- The Exeter River, three susceptibility factors were rated high, five were rated medium, and four were rated low.
- The Dearborn Reservoir (Water Works Pond), three susceptibility factors were rated high, three were rated medium, and seven were rated low.
- The Skinner Springs, two susceptibility factors were rated high, three were rated medium, and seven were rated low.
- The Lary Lane Well, two susceptibility factors were rated high, three were rated medium, and seven were rated low.

Note: This information is over five years old and includes information that was current at the time the report was completed. Therefore, some of the ratings might be different if updated to reflect current information. At the present time, DES has no plans to update this data.

| System Name: | Exeter Water Department | EPA ID: 0801010 |
|--------------|--------------------------------|-----------------|
| | | |

2012 - DATA from 2011 and earlier

| | | | | | | VIOL | TIONS | |
|---|------------------------|----------------------------|-----------------------|------------------------|---------------------|-----------------------------------|--|--|
| | VIOLATIO | ONS Da | ate of vio- lation | Explain viola- tion | Length of violation | Action taken to resolve | Health Effects (Env-Dw 811.21) | |
| | Public not | tice | August 2010 | TTHM exce- dence | Q1- 2011 | Process Adjust- ments | Some people who drink water containing Trihalomethanes in exc years may experience problems with their liver, kidney, or centra have an increased risk of cancer | |
| L | MCL | 80 |)µgl | RAA 85µgl | | | | |
| | | | ¥ | | | DETECTED WATER | QUALITY RESULTS | |
| (| Contaminant (Units) | Level Detected (please lis | | MCLG | Violation YES/NO | Likely Source of Contamination | Health Effects of Contaminant | |

| Contaminant | Level | | | | Likely Source of | Health Effects of Contaminant |
|-------------------------------------|--|-----------------------------|------|---------------------|--------------------------------------|--|
| (Units) | Detected (please list date sam- pled if prior to | MCL | MCLG | Violation YES/NO | Contamination | |
| · | if prior to current re- porting year) | | | | | |
| Microbiological Co | ntaminants | | | | | |
| Total Coliform Bacteria | 0 | < 40 samples >1 is positive | 0 | NO | Naturally present in the environment | Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially-harmful, bacteria may be present. Coliforms were found in more samples than allowed and this was a warning of potential problems. |
| Total Organic Carbon (ppm) | 1.4 to 3.9 | TT | N/A | NO | Naturally present in the environment | Total organic carbon (TOC) has no health effects. However, total organic carbon provides a medium for the formation of disinfection byproducts. These byproducts include trihalomethanes (THMs) and haloacetic acids (HAAs). Drinking water containing these byproducts in excess of the MCL may lead to adverse health effects, liver or kidney problems, or nervous system effects, and may lead to an increased risk of getting cancer. |
| Turbidity (NTU) | .023 to .271 | TT | N/A | NO | Soil runoff | Turbidity has no health effects. However, turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organisms. These organisms include bacteria, viruses, and parasites that can cause symptoms such as nausea, cramps, distributed headaches. |

| Organic Carbon (ppm) | 1.4 to 3.9 | | N/A | NO | the environment | for the formation of disinfection byproducts. These byproducts include trihalomethanes (THMs) and naloacetic acids (HAAs). Drinking water containing these byproducts in excess of the MCL may lead to adverse health effects, liver or kidney problems, or nervous system effects, and may lead to an increased risk of getting cancer. |
|--------------------------------------|--------------|----|-----|----|-----------------------------|---|
| Turbidity (NTU) | .023 to .271 | TT | N/A | NO | | Furbidity has no health effects. However, turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organisms. These organisms include bacteria, viruses, and parasites that can cause symptoms such as nausea, cramps, diarrhea, and associated headaches. |
| Fecal Coliform, E. coli Bacteria | 0 | 0 | 0 | МО | fecal waste | Fecal coliforms and E. coli are bacteria whose presence indicates that the water may be contaminated with human or animal wastes. Microbes in these wastes can cause short-term effects, such as diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a special health risk for infants, young children, some of the elderly, and people with severely-compromised immune systems. |
| Radioactive Contar | ninants | | | | | |
| Compliance Gross Alpha (pCi/L) | 2 (2005) | 15 | 0 | NO | Erosion of natural deposits | Certain minerals are radioactive and may emit a form of radiation know as alpha radiation. Some people who drink water containing alpha emitters in excess of the MCL over many years may have an increased risk of getting cancer. |
| | | | | | | |
| Combined | 0.7 | 5 | 0 | NO | Erosion of natural depos- | Some people who drink water containing radium 226 or 228 in excess of the MCL over many |

its

years may have an increased risk of getting cancer.

Radium 226 + 228

(2005)

| Arsenic | 9 to 11 | RAA =10 | 0 | NO | Erosion of natural depos- | (5 ppb through 10 ppb) While your drinking water meets EPA's standard for arsenic, it does con- |
|---|--------------------------|----------------|---------------|------------------------------|---|---|
| (ppb) | 7.011 | KM1-10 | U | | its; runoff from orchards; runoff from glass and electronics production wastes | tain low levels of arsenic. EPA's standard balances the current understanding of arsenic's possible health effects against the costs of removing arsenic from drinking water. EPA continues to research the health effects of low levels of arsenic, which is a mineral known to cause cancer in humans at high concentrations and is linked to other health effects such as skin damage and circulatory problems. (above 10 ppm) Some people who drink water containing arsenic in excess of the MCL over many years could experience skin damage or problems with their circulatory system, and may have an increased risk of getting cancer. |
| Barium (ppm) | .009 | 2 | 2 | NO | Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits | Some people who drink water containing barium in excess of the MCL over many years could experience an increase in their blood pressure. |
| Chlorine (ppm) | 0.21 to 3.25 | MRDL = 4 | MRDLG = 4 | NO | Water additive used to control microbes | Some people who use water containing chlorine well in excess of the MRDL could experience irritating effects to their eyes and nose. Some people who drink water containing chlorine well in excess of the MRDL could experience stomach discomfort. |
| Copper (ppm) | 0 to .197 (2010) | AL=1.3 | 1.3 | NO | Corrosion of household plumbing systems; ero- sion of natural deposits; leaching from wood pre- servatives | Copper is an essential nutrient, but some people who drink water containing copper in excess of the action level over a relatively short amount of time could experience gastrointestinal distress. Some people who drink water containing copper in excess of the action level over many years could suffer liver or kidney damage. People with Wilson's Disease should consult their personal doctor. |
| Fluoride (ppm) | 0.21 | 4 | 4 | NO | Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories | Some people who drink water containing fluoride in excess of the MCL over many years could get bone disease, including pain and tenderness of the bones. Fluoride in drinking water at half th MCL or more may cause mottling of children's teeth, usually in children less than nine years old. Mottling also known as dental fluorosis, may include brown staining and/or pitting of the teeth, and occurs only in developing teeth before they erupt from the gums. |
| Lead (ppb) | 0 to 5 (2010) | AL=15 | 0 | NO | Corrosion of household plumbing systems, ero- sion of natural deposits | (15 ppb in more than 5%) Infants and young children are typically more vulnerable to lead in drinking water than the general population. It is possible that lead levels at your home may be higher than at other homes in the community as a result of materials used in your home's plumbing. If you are concerned about elevated lead levels in your home's water, you may wish to have your water tested and flush your tap for 30 seconds to 2 minutes before using tap water. Additional information is available from the Safe Drinking Water Hotline (800-426-4791). (above 15 ppb) Infants and children who drink water containing lead in excess of the action level could experience delays in their physical or mental development. Children could show slight deficits in attention span and learning abilities. Adults who drink this water over many years could develop kidney problems or high blood pressure. |
| Synthetic Organic | Contaminants | including Pest | icides and He | erbicides | | |
| Hexachloro- cyclopentadiene | 11 to 13 | 50 | 50 | NO | Discharge from chemical factories | Some people who drink water containing hexachlorocyclopentadiene well in excess of the MCL over many years could experience problems with their kidneys or stomach. |
| Volatile Organic (| Contaminants | | | | | |
| Haloacetic Acids (HAA) (ppb) | 0 to 74 RAA = 29 | 60 | NA | NO | By-product of drinking water disinfection | Some people who drink water containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer. |
| Total Triha- lomethanes (TTHM) (ppb) | 8.5 to 143 RAA = 55.6 | 100/80 | N/A | YES RAA exceeded Q1 | By-product of drinking water chlorination | Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous systems, and may have an increased risk of getting cancer. (Bromodichloro-methane, Bromoform, Dibromomethane, Chloroform) |